Wireless Moisture Intrusion Sensor

On-metal quality control applications

Smart Passive Sensing

RFM2110

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RFM2110

APPLICATIONS

Moisture intrusion monitor

Automotive leaks

Airframe monitor

Semi-enclosed compartment

Corrosion prevention

KEY FEATURES

Standard temperature range
-40 °C to +85 °C

Powered by Magnus® S2

Flexible sensor design

Battery-free design

For use on-metal

Sensor size
79.5 x 19.2 x 2.1 mm

Adhesive backing

Battery-free moisture intrusion detection

The RFM2110 is a wireless battery-free moisture sensor. This flexible direct-contact moisture/liquid sensor detects both liquid in direct contact with the sensor, or liquid brought to the sensor through wicking tails. Typical applications include quality control moisture detection in automotive vehicle assembly, aircraft maintenance/inspection and for corrosion prevention programs.

Wireless moisture sensor

The RFM2110 has a standard operating temperature range of -40°C to +85 °C. This covers the typical operating temperatures of most equipment and environmental operating conditions.

Flexible, easy to install

The RFM2110 is manufactured using flexible materials with a built-in adhesive strip. The RFM2110 incorporates an integrated RF antenna to harvest energy for the moisture sensing function, as well as to communicate with a RAIN/UHF compliant reader. The integrated antenna is configured to detect moisture when placed on metallic surfaces.

Versions

The RFM2110 is available in FCC and EU/ETSI frequency ranges. The RFM2110 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a complete system.
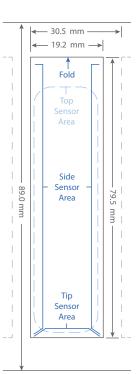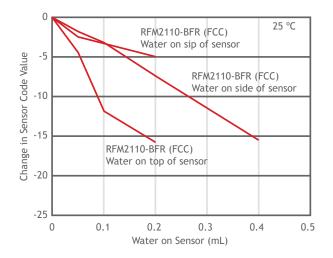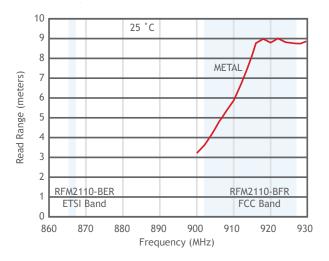
RFM2110 Specifications and Performance Data

Flexible sensor for quality control moisture intrusion monitoring applications

PARAMETER	VALUE
Normal temperature range	-40 ˚C to +85 ˚C
Compatible standards	EPC class 1 gen 2 v2.0.1 ISO 18000-6C
Integrated circuit	Powered by Magnus® S2
TID memory	64-bits
EPC memory	160-bits supporting up to 128-bit EPC
User memory	144-bits
Sensor die cut size	79.5 x 19.2 x 2.1 mm
Sensor pitch	30.5 mm
Web width	89.0 mm
Adhesive	Self-stick with easy release roll backing
Shipment method	Roll
Minimum order quantity	25
Ordering information	RFM2110-BFR (FCC 902 to 928 MHz) RFM2110-BER (ETSI 865.6 MHz to 867.6MHz)

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